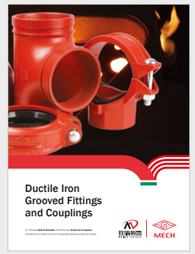
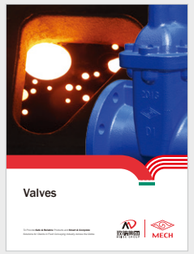
MECH FLOW SUPPLIES

Malleable Iron
Pipe Fittings


Ductile Iron
Grooved Fittings
and Couplings


Valves

Cast Bronze
Fittings

Electrical
Power Fittings

Malleable Iron
Pipe Clamps

Ductile Iron Pipe Fittings
Cast Iron Pipe Fittings

Pipe Nipples

JINAN MEIDE CASTING CO., LTD.

Address: Meide Science & Technology Park,
Industrial Park Pingyin, Jinan, China 250400

Phone: (86)531 87879384 87885036 87885067

Fax: (86)531 87879387

Email: info@meide-casting.com

Http://www.meide-casting.com

UPDATED 02/2022

Malleable Iron Pipe Fittings

American Standard

*To Provide **Safe & Reliable** Products and **Smart & Complete** Solutions for Clients in Fluid Conveying Industry Across the Globe.*

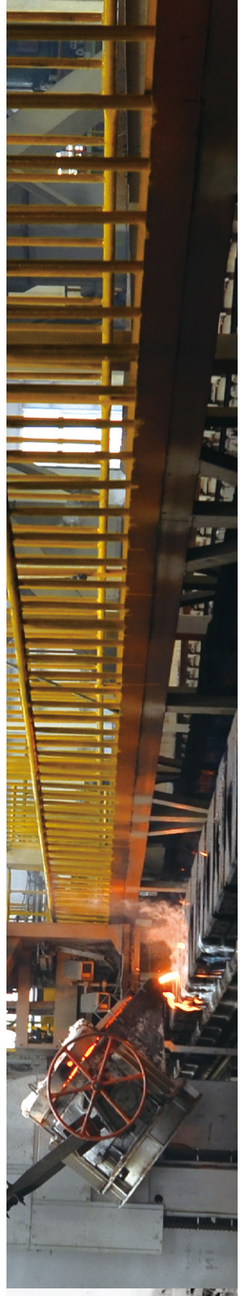
Company Profile

Meide Group is a high-tech enterprise specialized in supplying fittings and valves in fluid industry. The company has won more than 400 great honors, such as Single Champion Demonstration Enterprise, Green Manufacturing Enterprise, China's top 100 Light Industrial Enterprise, China's Leading Enterprise of Malleable Iron Pipe Fitting Production Base, National Enterprise with Good Creditworthiness and China's Famous Brand.

Inheriting the originality, and striving for excellence. "MECH" brand products are widely used in Burj Khalifa, dubai, new WTC in New York, Shanghai Tower, UHV transmission lines and other landmark buildings and projects such as Beijing-Shanghai high-speed railway. Adhering to the customer-centered product development and innovation concept, to meet and guide the growing needs of users, to provide safe & reliable products and smart & complete solutions for clients in fluid industry across the globe, Meide Group has become the industry leader.

Using development innovation platform such as National Enterprise Technical Center and Post-Doctoral Research Center, Meide Group is promoting the transformation of technology innovation achievements into productive forces, has completed the transformation of production process from mechanization to automation and intelligence, management from experience to institutionalization and process, marketing is from selling products to offering solutions, steadily improve Meide Group's role in the global value chain.

Through the construction of three production bases, including Jinan, Linyi and Bangkok, Meide Group has formed a cross-regional, multi-base international development pattern. Meide Group never forgets the original intention, operates in compliance, keeps growing, insists on sharing development results with customers, employees, shareholders and the community, and strive to be a happy and respectable company.



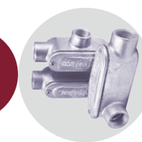
Company History

1961 — Business Started from Grey Iron Pot

1970 — Malleable Iron Pipe Fittings

1987 — Export, Main Market: Southeast Asia

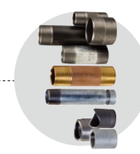
1990 — Conduit Body



1993 — Self Export, Developed US and European Market

1995 — Cast Iron Fittings

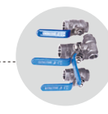
1997 — Steel Pipe Nipples Red Brass Pipe Nipples



1998 — Malleable Iron Pipe Clamps

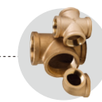
1999 — Pipe Hangers and Brackets

2000 — Ductile Iron Grooved Fittings and Couplings / Ball Valves

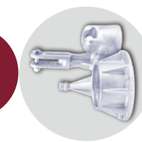


2001 — Ductile Iron Pipe Fittings

2003 — Bronze Fittings



2007 — Electric Power Fittings

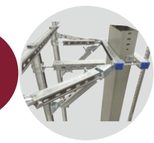


2011 — Valves

2012

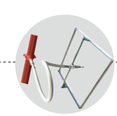
2014 — Extra-heavy Brass Pipe Nipples

2018 — "MECH" Malleable Iron Pipe Fittings for Fire Protection



2019 — Anti-vibration bracket

Stainless Steel Pipe Fittings
Fire Production Hose



1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2014 2018 2019

State of the Art Equipment

High precision equipment is quality assurance.
Jinan Meide's factories are all equipped with the most advanced facilities and equipment in the industry. The main production facilities include Sinto automatic molding line, Tokyu automatic molding line, Chinese 416 automatic vertical molding line, automatic molding sand mixers, cupola furnaces, electric furnaces, water-cooled longevous cupola furnaces, CNC vertical machining centers, CNC machines, NC vertical lathes, radial drills, Jinan Meide proprietary automatic machines, hot-dipped galvanization line, automatic box sealing line, stereoscopic warehouse and so on.

Pattern

Core Making

Sand Mulling

Melting

Sinto FCMX

DISA

Tokyu AMF-111055

Pouring

Annealing

End Grinding Line

Threading, Air Pressure Test, and Anti-rust Treatment

Warehouse

Reliable Quality Assurance

Jinan Meide is honored as the National enterprise technical center and is capable and qualified to conduct full series of tests and inspections including chemical checking, etc.

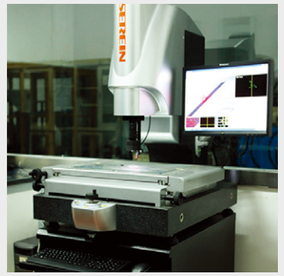
Inspection facilities include: spectrometer, carbon sulfur analyzer, metallurgical microscope, tensile strength testing equipment, pressure testing equipment, adhesive force testing equipment, CMM, hardness tester, etc.

From incoming inspection to finished product, quality is checked and monitored in the whole process. Each step of the manufacturing process is carefully documented, regularly reviewed for revision control and updating standard. Quality procedures are constantly monitored and updated to assure that only the highest and most consistent quality products are supplied to our valued customers.

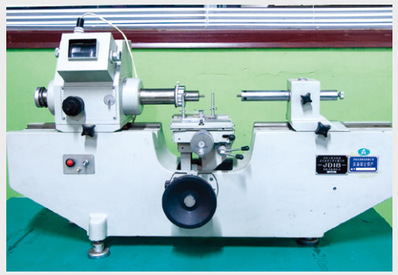
Metallurgical Microscope

Spectrometer

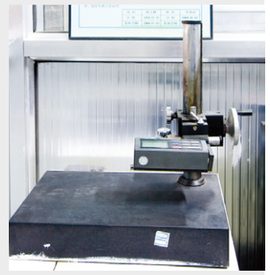
CMM



Projector



The Length of The Test Instrument



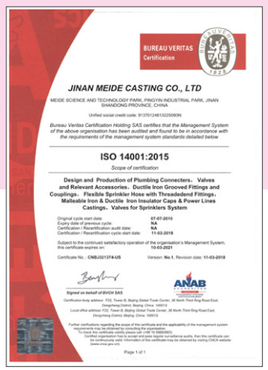
Roughness Tester

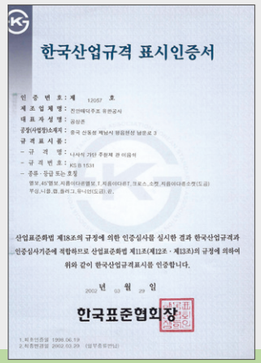
Carbon Sulfur Analyzer

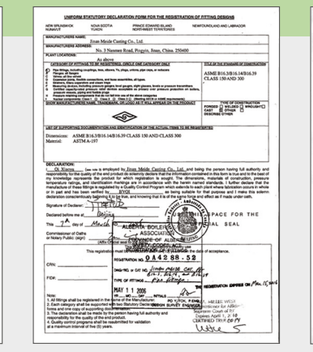
Tensile Strength Testing Equipment

Sand Testing Instrument

Certificates






UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS
Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Road, Pingyin, Jinan, China, 250400
ASTM A-197
DECLARATION:
I, Qi Xiaoxu
ASSOCIATION OF BOILER INSPECTORS
Commissioner of Oaths
or Notary Public (sign)
Signature of Declarant
Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Road, Pingyin, Jinan, China, 250400
Dimension: ASME B16.3/B16.14/B16.39 CLASS 150 AND CLASS 300
Material: ASTM A-197
Certificate No. 9442 88 - 52
Registration Office
Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Road, Pingyin, Jinan, China
Jinan Meide Pipe Couplings
Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Road, Pingyin, Jinan, China

Malleable Iron Pipe Fittings

American Standard Class 150

Material: ASTM A197/A197M
Dimensions: ASME B16.3, B16.14
Union Dimensions: B16.39
Threads: ASME B1.20.1
Size Available: 1/8"- 8"

90
90° Elbow

90R
90° Reducing Elbow

90U
180° Return Elbow

92
90° Street Elbow

92R
90° Reducing Street Elbow

96A
Union Elbow

120
45° Elbow

121
45° Street Elbow

130
Tee

130R
Bull Head Tee

130R
Reducing Tee

130R
Reducing Tee

130R
Reducing Tee

130R
Reducing Tee

134
Service Tee

135
Side Outlet Four-Way

165
45° Lateral Y Branch

180
Cross

180R
Reducing Cross

220
Coupling

220S
L&R Coupling

240
Reducing Coupling

240T
Tapped Reducing Coupling

241
Outside Hex Bushing

241N
Inside Hex Bushing

245
Reducing Hexagon Nipple

280
Hexagon Nipple

246
Reducing Extension Piece

529A
Extension Piece

291
Cored Plug

291S
Solid Plug

291N
Countersunk Plug

291-4
Bar Head Plug

300
Cap

310
Locknut

320
Wastenut

321
Floor Flange

321W
Floor Flange without Hole

342
Union with Brass Seat

1221
Side Outlet Elbow

1223
Side Outlet Tee

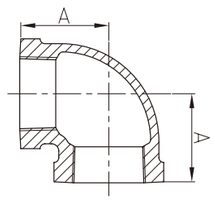
1224
Side Outlet Cross

LCC
Long Compression Coupling

WJFL
Tee Flange

90

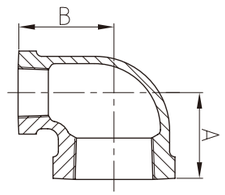
90° Elbow



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1	44.5	49.3
Size	Inch	2	21/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	57.2	68.6	78.2	96.3	114.3	130.3	162	

90R

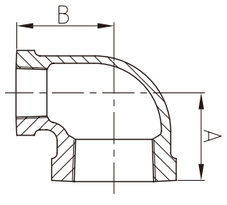
90° Reducing Elbow



Size	Inch	4X11/4	4X11/2	4X2	4X21/2	4X3	3/8X1/8
	mm	100X32	100X40	100X50	100X65	100X80	10X6
Dim. (mm)	A	60	62	69	78	83.8	20.5
	B	85	85	87	90	91.4	21.6
Size	Inch	3/8X1/4	6X4	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	10X8	150X100	15X8	15X10	20X8	20X10
Dim. (mm)	A	22.4	102	24.6	26.4	26.7	28.5
	B	22.9	125	24.9	26.2	27.4	28.7

90R

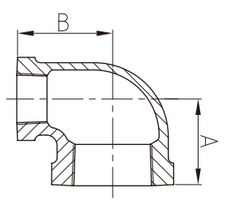
90° Reducing Elbow



Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30.5	27	30	32	34.8
	B	31	31	32.3	35.5	36.8
Size	Inch	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1	11/2X1/2
	mm	32X10	32X15	32X20	32X25	40X15
Dim. (mm)	A	32	34	36.8	40.1	35
	B	36.5	38.9	41.2	42.4	41.5

90R

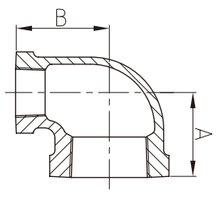
90° Reducing Elbow



Size	Inch	11/2X3/4	11/2X1	11/2X11/4	2X1/2	2X3/4
	mm	40X20	40X25	40X32	50X15	50X20
Dim. (mm)	A	38.6	41.9	46.2	37.5	40.6
	B	44.5	45.7	47.8	47.5	50.0
Size	Inch	2X1	2X11/4	2X11/2	21/2X3/4	21/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	43.9	48.3	51.3	42	46
	B	51.3	53.3	54.9	57	58.7

90R

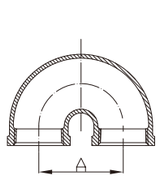
90° Reducing Elbow



Size	Inch	21/2X11/4	21/2X11/2	21/2X2	3X3/4	3X1
	mm	65X32	65X40	65X50	80X20	80X25
Dim. (mm)	A	50.5	54.9	60.7	45	50
	B	60	63.8	66.0	65	67.5
Size	Inch	3X11/4	3X11/2	3X2	3X21/2	1/4X1/8
	mm	80X32	80X40	80X50	80X65	8X6
Dim. (mm)	A	55	58	64	71.9	18.8
	B	70	72	73.4	75.9	19.3

90U

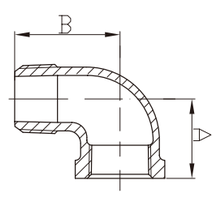
180° Return Elbow



Size	Inch	1/2	2				
	mm	15	50				
Dim. (mm)	A	38.1	101.6				
Size	Inch						
	mm						
Dim. (mm)	A						

92

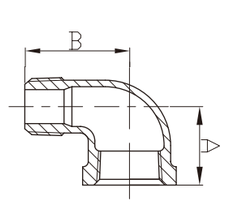
90° Street Elbow



Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1	44.5
	B	25.4	30.2	36.6	41.2	48.0	54.4	62.2
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A	49.3	57.2	68.6	78.2	96.3	130.3	
	B	68.3	82.8	98.0	114.6	144.5	204.0	

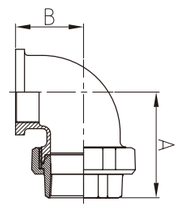
92R

90° Reducing Street Elbow



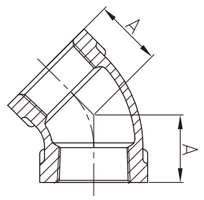
Size	Inch	3/4X1/2	1X3/4	11/4X1	11/2X11/4	
	mm	20X15	25X20	32X25	40X32	
Dim. (mm)	A	30	35	40		
	B	40	46	56		
Size	Inch					
	mm					
Dim. (mm)	A					
	B					

96A Union Elbow



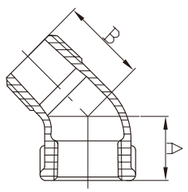
Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	57	59	72	82	88	99
	B	27	29	34	43	47	56
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

120 45° Elbow



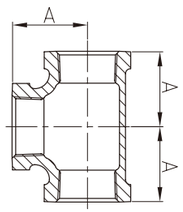
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	16	18.5	20.3	22.4	24.9	28.5	32.8	36.3
Size	Inch	2	21/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	42.7	49.5	55.1	66.3	77.5	87.9	106.7	

121 45° Street Elbow



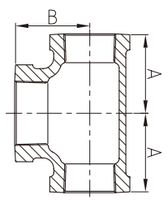
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	16	18.5	20.3	22.4	24.9	28.5
	B	21	23.9	26.2	29.2	32.8	37.3
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	32.8	36.3	42.7	49.5	55.1	66.3
	B	43.4	47.8	56.4	65.3	76.2	94.0

130 Tee



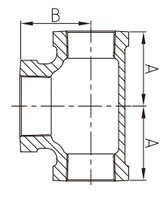
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1	44.5	49.3
Size	Inch	2	21/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	57.2	68.6	78.2	96.3	114.3	130.3	162	

130R Bull Head Tee



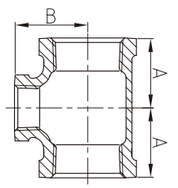
Size	Inch	1/2X1/2X3/4	1/2X1/2X1	3/4X3/4X1	3/4X3/4X11/4
	mm	15X15X20	15X15X25	20X20X25	20X20X32
Dim. (mm)	A	31	34.6	36.8	41.2
	B	30.5	32.0	34.8	36.8
Size	Inch	1X1X11/4	1X1X11/2	1X1X2	1X1X21/2
	mm	25X25X32	25X25X40	25X25X50	25X25X65
Dim. (mm)	A	42.4	45.7	51.3	60
	B	40.1	41.9	48.9	48

130R Bull Head Tee



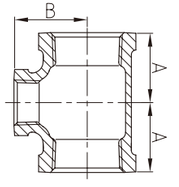
Size	Inch	11/4X11/4X11/2	11/4X11/4X2	11/2X11/2X2	11/2X11/2X21/2
	mm	32X32X40	32X32X50	40X40X50	40X40X65
Dim. (mm)	A	47.8	53.3	54.9	62
	B	46.2	48.3	51.3	55
Size	Inch	2X2X21/2	21/2X21/2X3	21/2X21/2X4	
	mm	50X50X65	65X65X80	65X65X100	
Dim. (mm)	A	66	76	90	
	B	60.7	71.9	78	

130R Reducing Tee



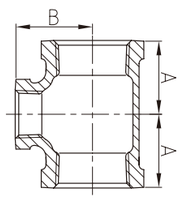
Size	Inch	4X1/2	4X3/4	4X1	4X11/4	4X11/2	4X2
	mm	100X15	100X20	100X25	100X32	100X40	100X50
Dim. (mm)	A	50	53	56	60	63.8	69.6
	B	79	79	82	84	84.3	86.6
Size	Inch	4X21/2	4X3	3/8X1/4	6X4	6X2	6X3
	mm	100X65	100X80	10X8	150X100	150X50	150X80
Dim. (mm)	A	77.5	83.8	22.4	104.9	78.2	92.5
	B	89.2	91.4	22.9	125.5	115.8	120.7

130R Reducing Tee



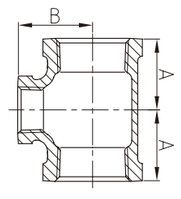
Size	Inch	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8
	mm	15X6	15X8	15X10	20X8	20X10
Dim. (mm)	A	22	24.6	26.4	26.7	28.5
	B	23	24.9	26.2	27.4	28.7
Size	Inch	3/4X1/2	1X1/4	1X3/8	1X1/2	1X3/4
	mm	20X15	25X8	25X10	25X15	25X20
Dim. (mm)	A	30.5	28.2	30	32	34.8
	B	31	31	32.3	35.5	36.8

130R Reducing Tee



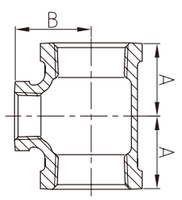
Size	Inch	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1	11/2X3/8
	mm	32X10	32X15	32X20	32X25	40X10
Dim. (mm)	A	32	34	36.8	40.1	34
	B	36.6	38.9	41.2	42.4	39
Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/8
	mm	40X15	40X20	40X25	40X32	50X10
Dim. (mm)	A	35.8	38.6	41.9	46.2	36
	B	42.2	44.5	45.7	47.8	46

130R Reducing Tee



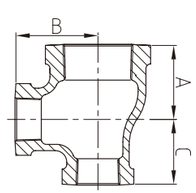
Size	Inch	2X1/2	2X3/4	2X1	2X11/4	2X11/2
	mm	50X15	50X20	50X25	50X32	50X40
Dim. (mm)	A	37.9	40.6	43.9	48.3	51.3
	B	47.8	50	51.3	53.3	54.9
Size	Inch	21/2X1/2	21/2X3/4	21/2X1	21/2X11/4	21/2X11/2
	mm	65X15	65X20	65X25	65X32	65X40
Dim. (mm)	A	41	44.2	47.5	51.8	54.9
	B	57	58.9	60.2	62.2	63.8

130R Reducing Tee



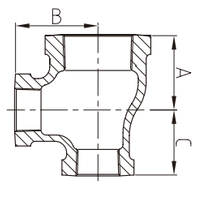
Size	Inch	21/2X2	3X1/2	3X3/4	3X1	3X11/4
	mm	65X50	80X15	80X20	80X25	80X32
Dim. (mm)	A	60.7	42	47.5	50.8	55.1
	B	66.0	64	66.3	67.6	69.6
Size	Inch	3X11/2	3X2	3X21/2	1/4X1/8	
	mm	80X40	80X50	80X65	8X6	
Dim. (mm)	A	58.2	64.0	71.9	18.8	
	B	71.1	73.4	76	19.3	

130R Reducing Tee



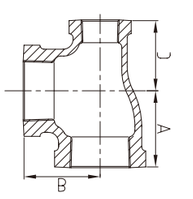
Size	Inch	3/4X1/2X1/2	1X1/2X1/2	1X3/4X3/4	11/4X1/2X1/2
	mm	20X15X15	25X15X15	25X20X20	32X15X15
Dim. (mm)	A	30.5	32	34.8	34
	B	31	35.5	36.8	38
	C	28.5	28.5	33.3	27
Size	Inch	11/4X3/4X3/4	11/4X1X1	11/2X3/4X3/4	11/2X1X1
	mm	32X20X20	32X25X25	40X20X20	40X25X25
Dim. (mm)	A	36.8	40.1	38	41.9
	B	41.2	42.4	43	45.7
	C	33.3	38.1	32	38.1

130R Reducing Tee



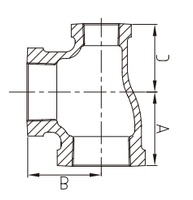
Size	Inch	11/2X11/4X11/4	2X1X1	2X11/4X11/4	2X11/2X11/2
	mm	40X32X32	50X25X25	50X32X32	50X40X40
Dim. (mm)	A	46.2	44	48.3	51.3
	B	47.8	51	53.3	54.9
	C	44.5	38	44.5	49.3
Size	Inch	21/2X2X2	3X2X2		
	mm	65X50X50	80X50X50		
Dim. (mm)	A	60.7	64		
	B	66	73.4		
	C	57.2	57.2		

130R Reducing Tee



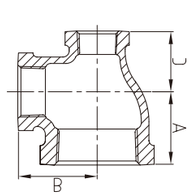
Size	Inch	3/4X1/2X3/4	1X1/4X1	1X1/2X1	1X3/4X1	11/4X1/2X11/4
	mm	20X15X20	25X8X25	25X15X25	25X20X25	32X15X32
Dim. (mm)	A	33.3	37	38.1	38.1	44.5
	B	33.3	37	38.1	38.1	44.5
	C	31	30	35.5	36.8	38.9
Size	Inch	11/4X3/4X11/4	11/4X1X11/4	11/2X1/2X11/2	11/2X3/4X11/2	11/2X1X11/2
	mm	32X20X32	32X25X32	40X15X40	40X20X40	40X25X40
Dim. (mm)	A	44.5	44.5	49.3	49.3	49.3
	B	44.5	44.5	49.3	49.3	49.3
	C	41.2	42.4	42.2	44.5	45.7

130R Reducing Tee



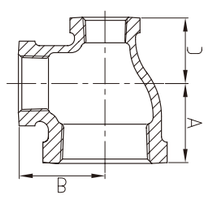
Size	Inch	11/2X11/4X11/2	2X1/2X2	2X3/4X2	2X1X2
	mm	40X32X40	50X15X50	50X20X50	50X25X50
Dim. (mm)	A	49.3	57.2	57.2	57.2
	B	49.3	57.2	57.2	57.2
	C	47.8	47.8	50	51.3
Size	Inch	2X11/4X2	2X11/2X2	21/2X11/2X21/2	21/2X2X21/2
	mm	50X32X50	50X40X50	65X40X65	65X50X65
Dim. (mm)	A	57.2	57.2	68.6	68.6
	B	57.2	57.2	68.6	68.6
	C	53.3	54.8	63.8	66

130R Reducing Tee



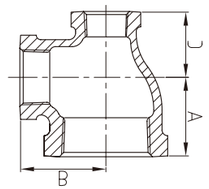
Size	Inch	4X3X2	3/4X1/2X1	1X1/2X3/4	11/4X1/2X3/4	11/4X1/2X1
	mm	100X80X50	20X15X25	25X15X20	32X15X20	32X15X25
Dim. (mm)	A	67	38	34.8	35	40.1
	B	83.5	34	36.8	38	42.4
	C	60	33	31	29	34.5
Size	Inch	11/4X3/4X1/2	11/4X3/4X1	11/4X1X1/2	11/4X1X3/4	11/4X1X11/2
	mm	32X20X15	32X20X25	32X25X15	32X25X20	32X25X40
Dim. (mm)	A	40	40.1	34.0	36.8	48
	B	42.5	42.4	38.9	41.2	46
	C	37	36.8	32	34.8	46

130R Reducing Tee



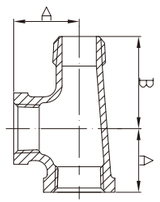
Size	Inch	11/2X1/2X1	11/2X3/4X1	11/2X3/4X11/4	11/2X1X1/2	11/2X1X11/4
	mm	40X15X25	40X20X25	40X20X32	40X25X15	40X25X32
Dim. (mm)	A	44	44	46	37	45
	B	46	46	48	41	47
	C	34	35	41	32	41.5
Size	Inch	11/2X11/4X1/2	11/2X11/4X3/4	11/2X11/4X1	11/2X11/4X2	2X1X11/2
	mm	40X32X15	40X32X20	40X32X25	40X32X50	50X25X40
Dim. (mm)	A	35.8	38.6	41.9	55	51.3
	B	42.2	44.5	45.7	51.5	54.9
	C	34.0	36.3	40.1	53.5	45.7

130R Reducing Tee



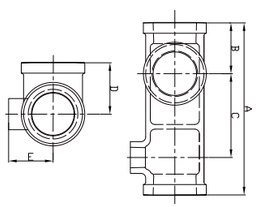
Size	Inch	2X11/4X1	2X11/4X11/2	2X11/2X1/2	2X11/2X3/4	2X11/2X1
	mm	50X32X25	50X32X40	50X40X15	50X40X20	50X40X25
Dim. (mm)	A	40	51.3	38	39.5	43.9
	B	51	54.9	48	49	51.3
	C	44	47.8	36	37.5	41.9
Size	Inch	2X11/2X11/4	21/2X2X1/2	21/2X2X1	21/2X2X11/4	3X21/2X2
	mm	50X40X32	65X50X15	65X50X25	65X50X32	80X65X50
Dim. (mm)	A	48.3	57	53	57	64.0
	B	53.3	64	60	64	73.4
	C	46.2	52	53	52	60.7

134 Service Tee



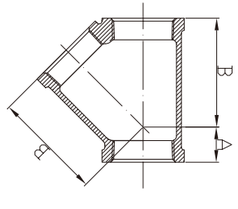
Size	Inch	1/4	1/2	3/4	1	11/4	11/2
	mm	8	15	20	25	32	40
Dim. (mm)	A	20.6	28.5	33.3	38.1	44.5	49.3
	B	30.2	41.2	48.0	54.4	62.2	68.3
Size	Inch	2	3				
	mm	50	80				
Dim. (mm)	A	57.2	78.2				
	B	82.8	114.6				

135 Side Outlet Four-Way



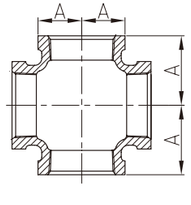
Size	Inch	11/4X1/2			
	mm	32X15			
Dim. (mm)	A	149			
	B	44.5			
	C	72.6			
	D	44.5			
	E	38			

165 45° Lateral Y Branch



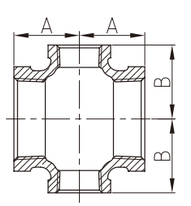
Size	Inch	3/8	1/2	3/4	1	11/4	11/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	12.7	15.5	18.3	21.6	25.9	27.9
	B	36.3	43.4	52.1	61.7	74.2	83.3
Size	Inch	2	21/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	37.5	38.6	43.4	51.1		
	B	99.8	120.1	141	177		

180 Cross



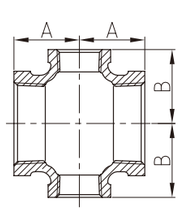
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	17.5	20.6	24.1	28.5	33.3	38.1
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	44.5	49.3	57.2	68.6	78.2	96.3

180R Reducing Cross



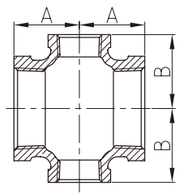
Size	Inch	4X1	4X11/4	4X11/2	4X2	4X21/2	4X3
	mm	100X25	100X32	100X40	100X50	100X65	100X80
Dim. (mm)	A	56	60	62	70	84	82
	B	82	85	85	86	92	90
Size	Inch	3/4X1/2	1X1/2	1X3/4	11/4X1/2	11/4X3/4	11/4X1
	mm	20X15	25X15	25X20	32X15	32X20	32X25
Dim. (mm)	A	30.5	32	34.8	33	36.8	40.1
	B	31.0	35.5	36.8	37.5	41.2	42.4

180R Reducing Cross



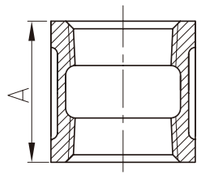
Size	Inch	11/2X1/2	11/2X3/4	11/2X1	11/2X11/4	2X3/4
	mm	40X15	40X20	40X25	40X32	50X20
Dim. (mm)	A	34.5	38.6	41.9	46.2	40.6
	B	41	44.5	45.7	47.8	50
Size	Inch	2X1	2X11/4	2X11/2	21/2X3/4	21/2X1
	mm	50X25	50X32	50X40	65X20	65X25
Dim. (mm)	A	43.9	48.3	51.3	43	47
	B	51.3	53.3	54.9	57	60

180R Reducing Cross



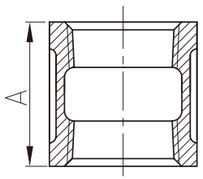
Size	Inch	21/2X11/4	21/2X11/2	21/2X2	3X3/4	3X1
	mm	65X32	65X40	65X50	80X20	80X25
Dim. (mm)	A	52	55	60.7	45	49
	B	62	63	66.0	65	66
Size	Inch	3X11/4	3X11/2	3X2	3X21/2	
	mm	80X32	80X40	80X50	80X65	
Dim. (mm)	A	53	56.5	64	72	
	B	68	69.5	73.4	76	

220 Coupling



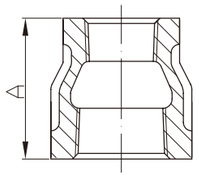
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	24.2	26.9	29.5	34.0	38.6	42.4	49
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	54.6	64.3	73.2	80.8	93.7	95	105

220S Left & Right Coupling



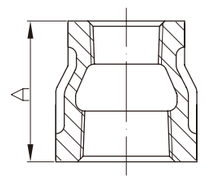
Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	34.0	38.6	42.4	49	54.6	64.3
Size	Inch						
	mm						
Dim. (mm)	A						

240 Reducing Coupling



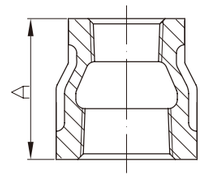
Size	Inch	4X1	4X11/4	4X11/2	4X2	4X21/2
	mm	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	111.3	111.3	111.3	111.3	111.3
Size	Inch	4X3	3/8X1/8	3/8X1/4	5X4	6X4
	mm	100X80	10X6	10X8	125X100	150X100
Dim. (mm)	A	111.3	28.7	28.7	122	105

240 Reducing Coupling



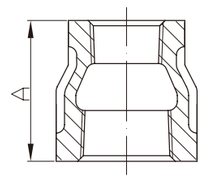
Size	Inch	6X2	6X3	1/2X1/8	1/2X1/4	1/2X3/8	3/4X1/8
	mm	150X50	150X80	15X6	15X8	15X10	20X6
Dim. (mm)	A	105	105	31.8	31.8	31.8	36.6
Size	Inch	3/4X1/4	3/4X3/8	3/4X1/2	1X1/4	1X3/8	1X1/2
	mm	20X8	20X10	20X15	25X8	25X10	25X15
Dim. (mm)	A	36.6	36.6	36.6	42.9	42.9	42.9

240 Reducing Coupling



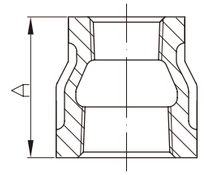
Size	Inch	1X3/4	11/4X1/4	11/4X3/8	11/4X1/2	11/4X3/4	11/4X1
	mm	25X20	32X8	32X10	32X15	32X20	32X25
Dim. (mm)	A	42.9	52.3	52.3	52.3	52.3	52.3
Size	Inch	11/2X1/4	11/2X3/8	11/2X1/2	11/2X3/4	11/2X1	2X1/2
	mm	40X8	40X10	40X15	40X20	40X25	50X15
Dim. (mm)	A	58.7	58.7	58.7	58.7	58.7	71.4

240 Reducing Coupling



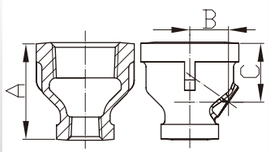
Size	Inch	11/2X11/4	2X3/4	2X1	2X11/4	2X11/2
	mm	40X32	50X20	50X25	50X32	50X40
Dim. (mm)	A	58.7	71.4	71.4	71.4	71.4
Size	Inch	21/2X1/2	21/2X3/4	21/2X1	21/2X11/4	21/2X11/2
	mm	65X15	65X20	65X25	65X32	65X40
Dim. (mm)	A	82.6	82.6	82.6	82.6	82.6

240 Reducing Coupling



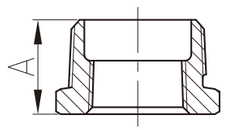
Size	Inch	21/2X2	3X1/2	3X3/4	3X1	3X11/4
	mm	65X50	80X15	80X20	80X25	80X32
Dim. (mm)	A	82.6	93.7	93.7	93.7	93.7
Size	Inch	3X11/2	3X2	3X21/2	1/4X1/8	8X6
	mm	80X40	80X50	80X65	8X6	200X150
Dim. (mm)	A	93.7	93.7	93.7	25.4	131

240T Tapped Reducing Coupling



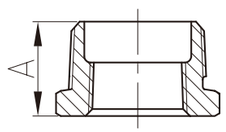
Size	Inch	3/4X1/4X1/8				
	mm	20X8X6				
Dim. (mm)	A	36.5				
	B	14.8				
	C	22.5				
Size	Inch					
	mm					
Dim. (mm)	A					
	B					
	C					

241 Outside Hex Bushing



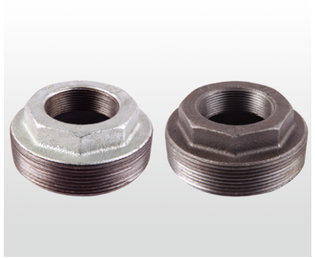
Size	Inch	4X3	3/8X1/8	3/8X1/4	5X4	6X5	1/2X1/8	1/2X1/4
	mm	100X80	10X6	10X8	125X100	150X125	15X6	15X8
Dim. (mm)	A	43.7	16.3	16.3	46	51.6	19	19
Size	Inch	1/2X3/8	3/4X1/8	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2	1X3/4
	mm	15X10	20X6	20X8	20X10	20X15	25X15	25X20
Dim. (mm)	A	19	21.6	21.6	21.6	21.6	25.5	25.5

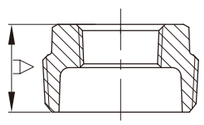
241 Outside Hex Bushing



Size	Inch	11/4X3/4	11/4X1	11/2X1	11/2X11/4	2X11/4	2X11/2
	mm	32X20	32X25	40X25	40X32	50X32	50X40
Dim. (mm)	A	27.4	27.4	29	29	31	31
Size	Inch	21/2X11/2	21/2X2	3X2	3X21/2	1/4X1/8	8X6
	mm	65X40	65X50	80X50	80X65	8X6	200X150
Dim. (mm)	A	38.4	36.6	40.9	38.9	14.8	70

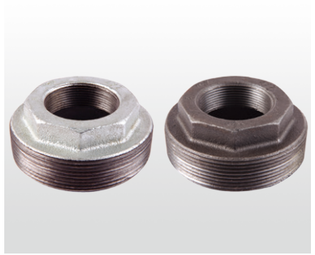
241N Inside Hex Bushing

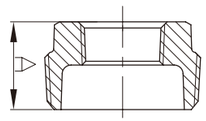




Size	Inch	4X3/4	4X1	4X11/4	4X11/2	4X2	4X21/2
	mm	100X20	100X25	100X32	100X40	100X50	100X65
Dim. (mm)	A	46.2	46.2	46.2	46.2	46.2	46.2
Size	Inch	6X2	6X21/2	6X3	6X4	1X1/8	1X1/4
	mm	150X50	150X65	150X80	150X100	25X6	25X8
Dim. (mm)	A	54.7	54.7	54.7	54.7	26.7	26.7

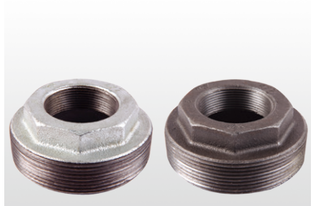
241N Inside Hex Bushing

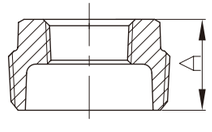




Size	Inch	1X3/8	11/4X3/8	11/4X1/2	11/2X1/4	11/2X3/8
	mm	25X10	32X10	32X15	40X8	40X10
Dim. (mm)	A	26.7	28.9	28.9	30.5	30.5
Size	Inch	11/2X1/2	11/2X3/4	2X1/4	2X3/8	2X1/2
	mm	40X15	40X20	50X8	50X10	50X15
Dim. (mm)	A	30.5	30.5	32.8	32.8	32.8

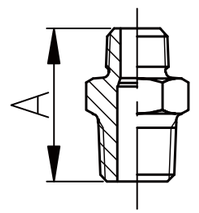
241N Inside Hex Bushing





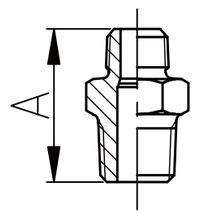
Size	Inch	2X3/4	2X1	21/2X1/2	21/2X3/4	21/2X1	21/2X11/4
	mm	50X20	50X25	65X15	65X20	65X25	65X32
Dim. (mm)	A	32.8	32.8	38.4	38.4	38.4	38.4
Size	Inch	3X1/2	3X3/4	3X1	3X11/4	3X11/2	
	mm	80X15	80X20	80X25	80X32	80X40	
Dim. (mm)	A	40.9	40.9	40.9	40.9	40.9	

245 Reducing Hexagon Nipple



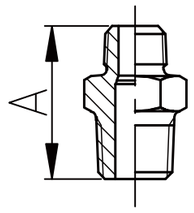
Size	Inch	4X2	4X21/2	4X3	3/8X1/4	1/2X1/4	1/2X3/8
	mm	100X50	100X65	100X80	10X8	15X8	15X10
Dim. (mm)	A	87	87	87	38	44	44
Size	Inch	3/4X1/4	3/4X3/8	3/4X1/2	1X1/2	1X3/4	11/4X1/2
	mm	20X8	20X10	20X15	25X15	25X20	32X15
Dim. (mm)	A	47	47	47	53	53	57

245 Reducing Hexagon Nipple



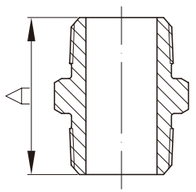
Size	Inch	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4	11/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	57	57	59	59	59
Size	Inch	11/2X11/4	2X1/2	2X3/4	2X1	2X11/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	59	68	68	68	68

245 Reducing Hexagon Nipple



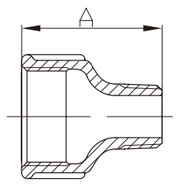
Size	Inch	2X11/2	21/2X1	21/2X11/4	21/2X11/2	21/2X2
	mm	50X40	65X25	65X32	65X40	65X50
Dim. (mm)	A	68	75	75	75	75
Size	Inch	3X11/2	3X2	3X21/2	1/4X1/8	
	mm	80X40	80X50	80X65	8X6	
Dim. (mm)	A	83	83	83	31	

280 Hexagon Nipple



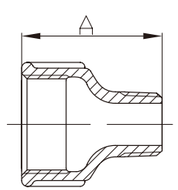
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A	29	36	38	44	47	53	57
Size	Inch	11/2	2	21/2	3	4	5	6
	mm	40	50	65	80	100	125	150
Dim. (mm)	A	59	68	75	83	95	103	110

246 Reducing Extension Piece



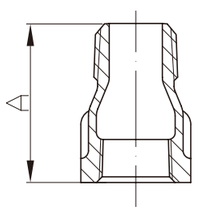
Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X3/8
	mm	10X8	15X8	15X10	20X10
Dim. (mm)	A	35	43	43	48
Size	Inch	3/4X1/2	1X1/2	1X3/4	11/4X1/2
	mm	20X15	25X15	25X20	32X15
Dim. (mm)	A	48	55	55	60

246 Reducing Extension Piece



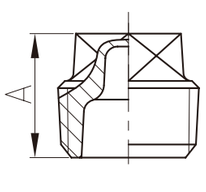
Size	Inch	11/4X3/4	11/4X1	11/2X3/4	11/2X1
	mm	32X20	32X25	40X20	40X25
Dim. (mm)	A	60	60	63	63
Size	Inch	11/2X11/4	2X1	2X11/4	2X11/2
	mm	40X32	50X25	50X32	50X40
Dim. (mm)	A	63	70	70	70

529A Extension Piece



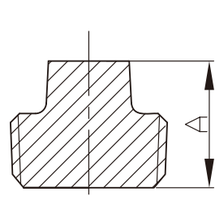
Size	Inch	3/8	1/2	3/4	1	11/4	11/2
	mm	10	15	20	25	32	40
Dim. (mm)	A	35	43	48	55	60	63
Size	Inch	2	21/2	3	4		
	mm	50	65	80	100		
Dim. (mm)	A	70	76	83	97		

291 Cored Plug



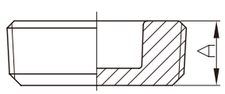
Size	Inch	1/8	1/4	3/8	3/4	1	11/4	11/2
	mm	6	8	10	20	25	32	40
Dim. (mm)	A	15.5	18.3	20.1	27.2	31.8	34.5	36.9
Size	Inch	2	21/2	3	4	6		
	mm	50	65	80	100	150		
Dim. (mm)	A	39.7	46	49	64.5	71.5		

291S Solid Plug



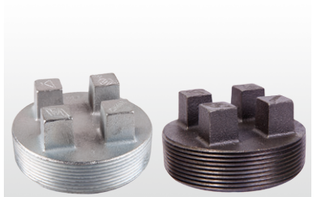
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	15.5	18.3	20.1	23.9	27.2	31.8
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	34.5	36.9	39.7	46	49	64.5

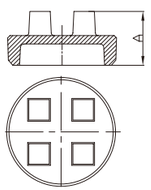
291N Countersunk Plug



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	14.2	16	19.1	20.3	21.1	22.4
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	27.2	28.7	31.0			

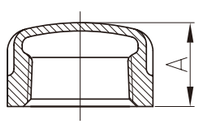
291-4 Bar Head Plug





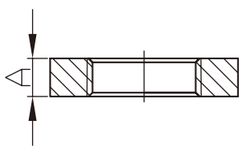
Size	Inch	4	5	6			
	mm	100	125	150			
Dim. (mm)	A	56.4	58.7	67.4			
Size	Inch						
	mm						
Dim. (mm)	A						

300 Cap



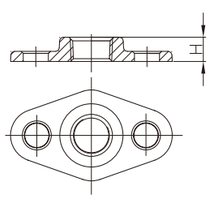
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
	mm	6	8	10	15	20	25	32	40
Dim. (mm)	A Min	13.5	16.0	18.8	22.1	24.6	29.5	32.5	33.8
Size	Inch	2	21/2	3	4	5	6	8	
	mm	50	65	80	100	125	150	200	
Dim. (mm)	A	36.8	43.2	45.7	52.8	58.9	64.8	76.2	

310 Locknut



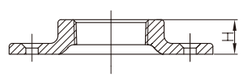
Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A Min	4.8	6.4	7.1	7.9	8.6	9.7
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A Min	10.7	11.9	13.5	15	17	20.3

320 Wastenut



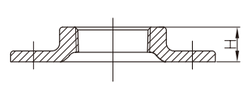
Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	12	13	13.5	15	16	18
Size	Inch	21/2					
	mm	65					
Dim. (mm)	A Min	20					

321 Floor Flange



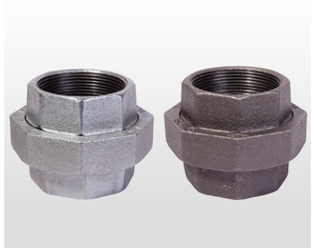
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A Min	12	14	14	16	17	19
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A Min	22	25	26.2	27.3	30.5	

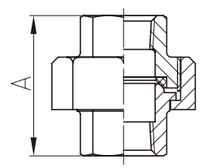
321W Floor Flange without Bolt Hole



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A Min	14	16	17	19	22	25
Size	Inch						
	mm						
Dim. (mm)	A Min						

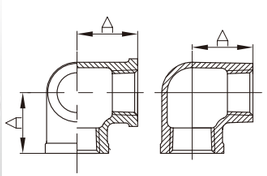
342 Union with Brass Seat





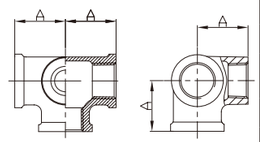
Size	Inch	1/8	1/4	3/8	1/2	3/4	1	11/4
	mm	6	8	10	15	20	25	32
Dim. (mm)	A Min	32	36.5	41	43.5	49.5	52.5	57.5
Size	Inch	11/2	2	21/2	3	4	6	
	mm	40	50	65	80	100	150	
Dim. (mm)	A Min	61	70	82	89	98	145	

1221 Side Outlet Elbow



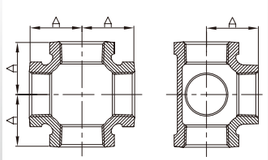
Size	Inch	1/2	3/4	1	11/2	2	
	mm	15	20	25	40	50	
Dim. (mm)	A	28	33	38	50	58	
Size	Inch						
	mm						
Dim. (mm)	A						

1223 Side Outlet Tee



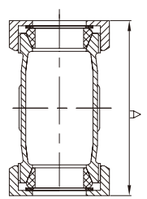
Size	Inch	1/2	3/4	1	11/4		
	mm	15	20	25	32		
Dim. (mm)	A	28	33	38	45		
Size	Inch						
	mm						
Dim. (mm)	A						

1224 Side Outlet Cross



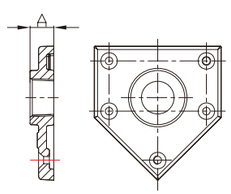
Size	Inch	1	11/4	11/2			
	mm	25	32	40			
Dim. (mm)	A	38	45	50			
Size	Inch						
	mm						
Dim. (mm)	A						

LCC Long Compression Coupling



Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	93	101	109	114	118	121
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	137	145	155			

WJFL Tee Flange



Size	Inch	1					
	mm	25					
Dim. (mm)	A	18					
Size	Inch						
	mm						
Dim. (mm)	A						

Malleable Iron Pipe Fittings

American Standard Class 300

Material: ASTM A197/A197M
Dimensions: ASME B16.3, B16.14
Union Dimensions: B16.39
Threads: ASME B1.20.1
Size Available: 1/4"- 4"

90
90° Elbow

90R
90° Reducing Elbow

92
90° Street Elbow

120
45° Elbow

121
45° Street Elbow

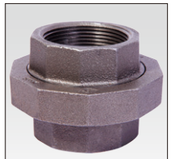
130
Tee

130R
Reducing Tee

220
Coupling

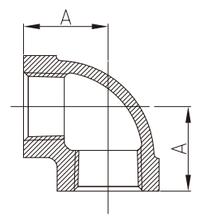
240
Reducing Coupling

300
Cap



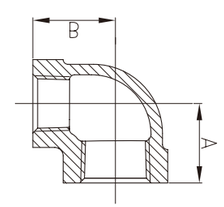
342
Union with Brass Seat

90 90° Elbow



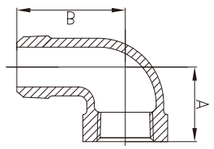
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	35.6	41.4	49.3
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	54.1	63.5	74.7	85.9	114	

90R 90° Reducing Elbow



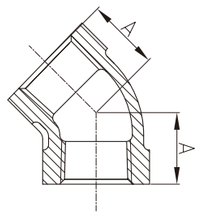
Size	Inch	1/2X3/8	1X3/4	1X1/2	11/4X1/2		
	mm	15X10	25X20	25X15	32X15		
Dim. (mm)	A	30.2	38.1	36.6	36.5		
	B	30.2	39.6	38.1	42		
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

92 90° Street Elbow



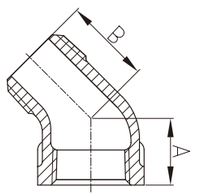
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	36.6	41.4	49.3
	B	36.6	41.4	50.8	55.6	65.0	73.2
Size	Inch	11/2	2	21/2	3		
	mm	40	50	65	80		
Dim. (mm)	A	54.1	63.5	74.7	85.9		
	B	79.5	93.7	114.3	130.3		

120 45° Elbow



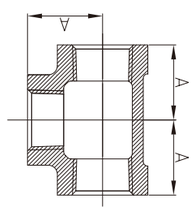
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	20.6	22.4	25.4	28.7	33.3	38.1
Size	Inch	11/2	2	21/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A	42.9	50.8	57.2	63.5	71	106.7

121 45° Street Elbow



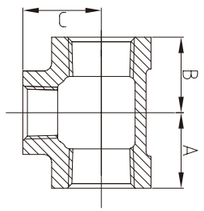
Size	Inch	3/4	1	11/4	11/2		
	mm	20	25	32	40		
Dim. (mm)	A	28.7	33.3	38.1	42.9		
	B	39.6	46.0	54.1	58.7		
Size	Inch						
	mm						
Dim. (mm)	A						
	B						

130 Tee



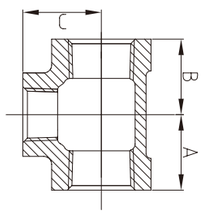
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	23.9	26.9	31.8	35.6	41.4	49.3
Size	Inch	11/2	2	21/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A	54.1	63.5	74.7	85.9	114	162

130R Reducing Tee



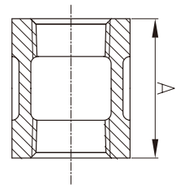
Size	Inch	1/2X3/8	3/4X1/2	1X1/2	1X3/4	11/4X1/2
	mm	15X10	20X15	25X15	25X20	32X15
Dim. (mm)	A	30.2	33.3	36.6	38.1	38.1
	B	30.2	33.3	36.6	38.1	38.1
	C	30.2	35.1	38.1	39.6	42.9
Size	Inch	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4	11/2X1
	mm	32X20	32X25	40X15	40X20	40X25
Dim. (mm)	A	41.4	44.5	41.4	42.9	46.0
	B	41.4	44.5	41.4	42.9	46.0
	C	44.5	46.0	46.0	47.6	50.8

130R Reducing Tee



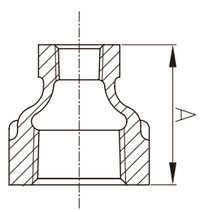
Size	Inch	11/2X11/4	2X1/2	2X3/4	2X1	2X11/4
	mm	40X32	50X15	50X20	50X25	50X32
Dim. (mm)	A	50.8	44.5	46.0	50.8	54.1
	B	50.8	44.5	46.0	50.8	54.1
	C	52.3	52.3	54.1	57.2	58.7
Size	Inch	2X11/2	21/2X2	3X2	4X21/2	4X3
	mm	50X40	65X50	80X50	100X65	100X80
Dim. (mm)	A	57.2	68.3	71.4	94	101.5
	B	57.2	68.3	71.4	94	101.5
	C	60.5	70.0	79.5	101.5	108

220 Coupling



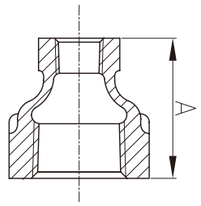
Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A	35.1	41.4	47.8	54.1	60.5	73.2
Size	Inch	11/2	2	21/2	3	4	
	mm	40	50	65	80	100	
Dim. (mm)	A	73.2	92.2	104.9	104.9	117	

240 Reducing Coupling



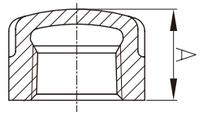
Size	Inch	3/8X1/4	1/2X1/4	1/2X3/8	3/4X1/4	3/4X3/8	3/4X1/2	1X3/8
	mm	10X8	15X8	15X10	20X8	20X10	20X15	25X10
Dim. (mm)	A	36.6	42.9	42.9	44.5	44.5	44.5	50.8
Size	Inch	1X1/2	1X3/4	11/4X1/2	11/4X3/4	11/4X1	11/2X1/2	11/2X3/4
	mm	25X15	25X20	32X15	32X20	32X25	40X15	40X20
Dim. (mm)	A	50.8	50.8	60.5	60.5	60.5	68.3	68.3

240 Reducing Coupling



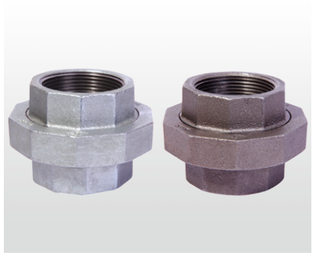
Size	Inch	11/2X1	11/2X11/4	2X1/2	2X3/4	2X1	2X11/4	2X11/2
	mm	40X25	40X32	50X15	50X20	50X25	50X32	50X40
Dim. (mm)	A	68.3	68.3	81.0	81.0	81.0	81.0	81.0
Size	Inch	21/2X11/2	21/2X2	3X2	3X21/2	4X3	8X6	
	mm	65X40	65X50	80X50	80X65	100X80	200X150	
Dim. (mm)	A	93.7	93.7	103.1	103.1	110	131	

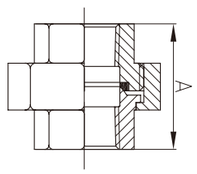
300 Cap



Size	Inch	1/4	3/8	1/2	3/4	1	11/4
	mm	8	10	15	20	25	32
Dim. (mm)	A Min	19.8	21.1	24.9	27.4	32.0	35.1
Size	Inch	11/2	2	21/2	3	4	8
	mm	40	50	65	80	100	200
Dim. (mm)	A Min	36.3	42.7	52.3	55.1	60.5	76.2

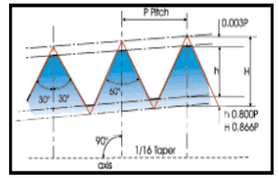
342 Union with Brass Seat





Size	Inch	1/8	1/4	3/8	1/2	3/4	1
	mm	6	8	10	15	20	25
Dim. (mm)	A	32	39.5	43.5	46	54	58.5
Size	Inch	11/4	11/2	2	21/2	3	4
	mm	32	40	50	65	80	100
Dim. (mm)	A	67.5	72.5	82	84.5	104	113.5

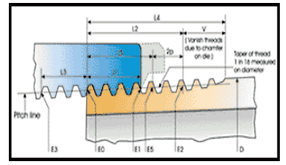
Basic Dimension for American Standard Pipe Threads



Taper thread

H= 0.866025 p=0.866025/n

h= 0.800 p=0.800/n



Taper thread

L2=(0.8D+6.8) 1/n=(0.80D+6.8)p

Nominal Pipe Size(inchs)	O.D.of Pipe (D)	Threads /in (N)	Pitch of Thread (P)	Pitch Dia. at Beginning of External Thread(E0)	Handtight Engagement			Effective Thread.Extenal			Depth of Thread h
					Length² (L1)		Diam³. (E1)	Length⁴ (L2)		Diam. (E2)	
					Inch	Thread		Inch	Thread		
1/8	0.405	27.0	0.03704	0.36351	0.1615	4.36	0.37360	0.2639	7.12	0.38000	0.029
1/4	0.540	18.0	0.05556	0.47739	0.2278	4.10	0.49163	0.4018	7.23	0.50250	0.044
3/8	0.675	18.0	0.05556	0.61201	0.2400	4.32	0.62701	0.4078	7.34	0.63750	0.044
1/2	0.840	14.0	0.07143	0.75843	0.3200	4.48	0.77843	0.5337	7.47	0.79179	0.057
3/4	1.050	14.0	0.07143	0.96768	0.3390	4.75	0.98887	0.5457	7.64	1.00179	0.057
1	1.315	11.5	0.08696	1.21363	0.4000	4.60	1.23863	0.6826	7.85	1.25630	0.069
11/4	1.660	11.5	0.08696	1.55713	0.4200	4.83	1.58338	0.7068	8.13	1.60130	0.069
11/2	1.900	11.5	0.08696	1.79609	0.4200	4.83	1.82234	0.7235	8.32	1.84130	0.069
2	2.375	11.5	0.08696	2.26902	0.4360	5.01	2.29627	0.7565	8.70	2.31630	0.069
21/2	2.875	8.0	0.12500	2.71953	0.6820	5.46	2.76216	131375	9.10	2.79062	0.100
3	3.500	8.0	0.12500	3.34062	0.7660	6.13	3.38850	1.2000	9.60	3.41562	0.100
31/2	4.000	8.0	0.12500	3.83750	0.8210	6.57	3.88881	1.2500	10.00	3.91562	0.100
4	4.500	8.0	0.12500	4.33438	0.8440	6.75	4.38712	1.3000	10.40	4.41562	0.100
5	5.563	8.0	0.12500	5.39073	0.9370	7.50	5.44929	1.4063	11.25	5.47862	0.100
6	6.625	8.0	0.12500	6.44609	0.9580	7.66	6.50597	1.5125	12.10	6.54062	0.100

Nominal Pipe Size (inchs)	Length,L1 Plane to L2 Plane External Thread (L2-L1)		Wrench Makeup Length for Internal Thread⁷			Vanish Thread (V)		Overall8 Length External Thread (L4)	Nominal Complete External Thread5		Height of Thread(h)	Increase in Diam./ Thread (0.0625/n)	Basic⁶ Minor Diam.At Small End of Pipe(K0)
			Length(L3)		Diam. (E3)				Length. (L5)	Diam. (E5)			
	Inch	Thread	Inch	Thread		Inch	Thread						
1/8	0.1024	2.76	0.1111	3	0.35656	0.1285	3.47	0.3924	0.1898	0.37537	0.02963	0.00231	0.3339
1/4	0.1740	3.13	0.1667	3	0.46697	0.1928	3.47	0.5946	0.2907	0.49556	0.04444	0.00347	0.4329
3/8	0.1678	3.02	0.1667	3	0.60160	0.1928	3.47	0.6006	0.2967	0.63056	0.04444	0.00347	0.5676
1/2	0.2137	2.99	0.2143	3	0.74504	0.2478	3.47	0.7815	0.3909	0.78286	0.05714	0.00446	0.7013
3/4	0.2067	2.89	0.2143	3	0.95429	0.2478	3.47	0.7935	0.4029	0.99286	0.05714	0.00446	0.9105
1	0.2828	3.25	0.2609	3	1.19733	0.3017	3.47	0.9845	0.5089	1.24543	0.06957	0.00543	1.1441
11/4	0.2868	3.30	0.2609	3	1.54083	0.3017	3.47	1.0085	0.5329	1.59043	0.06957	0.00543	1.4876
11/2	0.3035	3.49	0.2609	3	1.77978	0.3017	3.47	1.0252	0.5496	1.83043	0.06957	0.00543	1.7265
2	0.3205	3.69	0.2609	3	2.25272	0.3017	3.47	1.0582	0.5826	2.30543	0.06957	0.00543	2.1995
21/2	0.4555	3.64	0.2500	2	2.70391	0.4337	3.47	1.5712	0.8875	2.77500	0.10000	0.00781	2.6195
3	0.4340	3.47	0.2500	2	3.32500	0.4337	3.47	1.6337	0.9500	3.40000	0.10000	0.00781	3.2406
31/2	0.4290	3.43	0.2500	2	3.82188	0.4337	3.47	1.6837	1.0000	3.90000	0.10000	0.00781	3.7375
4	0.4560	3.65	0.2500	2	4.31875	0.4337	3.47	1.7337	1.0500	4.40000	0.10000	0.00781	4.2344
5	0.4693	3.75	0.2500	2	5.37511	0.4337	3.47	1.8400	1.1563	5.46300	0.10000	0.00781	5.2907
6	0.5545	4.44	0.2500	2	6.43047	0.4337	3.47	1.9462	1.2625	6.52500	0.10000	0.00781	6.3461

Note:This information is selected from the International Standard for Pipe Threads, ASME B1.20.1.

Technical Standard For Malleable Steel Pipe Fitting

1) Product standards

BS EN 10242:1995, DIN EN 10242:1995

ASME B16.3-2016, ASME B16.14-2013, ASME B16.39-2014

2) Material

BS EN 1562, DIN EN 1562, EN-GJMB-350-10

ASTM A197/A197M-2015, ASTM A47/A47M-2014

3) Thread

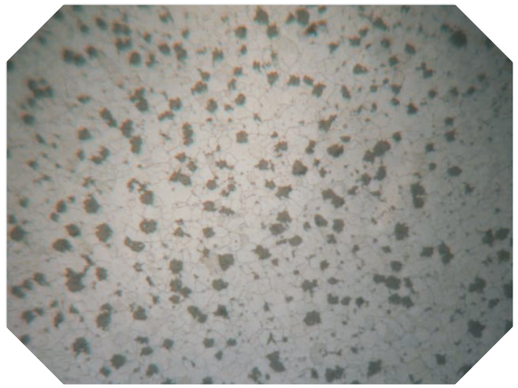
ISO7-1:1994 (BS/DIN)

ANSI/ASME B1.20.1 (NPT)

4) Chemical and Mechanical Properties

CHEMICAL PROPERTIES					PHYSICAL PROPERTIES	
C %	Si %	Mn %	P%	S%	TENSILE STRENGTH	ELONGATION
2.4-2.9	1.4-1.9	0.4-0.65	<0.1	<0.2	>=350 Mpa	>=10%

HARDNESS: <150HB



5) Dimensions

Fittings Size (inch)	1/8	1/4	3/8	1/2	3/4	1	1-1/4
DN （mm）	6	8	10	15	20	25	32

Fittings Size (inch)	1-1/2	2	2-1/2	3	4	5	6
DN （mm）	40	50	65	80	100	125	150

6) Pressure-Temperature Ratings

		Class 300, psig		
		Size	Size	Size
Temperature,℃	Class 150, psig	1/4–1	11/4–2	21/2–3
-29 to 66	300	2000	1500	1000
100	265	1785	1350	910
125	225	1575	1200	825
150	185	1360	1050	735
175	150 Note(1)	1150	900	650
200	20 to 150	935	750	580
225	20 to 150	725	600	475
250	20 to 150	510	450	585
275	20 to 150	300	300	300

7) Tolerances

BS&DIN

Dimension	Tolerance(mm)	Tolerance(in)
≤30	±1.5	±0.06
30-50	±2.0	±0.08
50-75	±2.5	±0.10
75-100	±3	±0.12
100-150	±3.5	±0.14
150-200	±4	±0.16

American

NPS	Tolerance(mm)	Tolerance(in)
1/8	±0.76	±0.03
1/4	±1	±0.04
3/8	±1.27	±0.05
1/2, 3/4	±1.52	±0.06
1, 1-1/4	±1.77	±0.07
1-1/2, 2	±2	±0.08
2-1/2, 3, 3-1/2	±2.54	±0.10
4, 5	±3	±0.12
6	±3.55	±0.14

8) Malleable iron threaded pipe fittings cannot be connected with products with high electronegativity such as stainless steel and copper.